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February 10, 2009 Project No. 8128.01.20

Mr. Dana Bayuk Oregon Department of Environmental Quality 2020 SW 4th Avenue Portland, Oregon

Re: Proposed Location of Angled Monitoring Well – Siltronic Corporation

Dear Mr. Bayuk:

The following letter presents preliminary baseline groundwater sampling results and identifies a proposed target area for the angled performance monitoring well (PMW) at the Siltronic Corporation (Siltronic) facility.

As suggested previously and discussed during the January 20, 2009 meeting with Oregon Department of Environmental Quality (DEQ), a PMW installed underneath the Fab 1 building using angled drilling techniques is required for development of the Performance Monitoring Plan (PMP). The location and depth of the screen interval were to be determined following evaluation of preliminary¹ baseline groundwater sampling.

During the weeks of January 19th and January 26th, 2009, groundwater samples were collected from 10 PMWs located downgradient of the Fab 1 building. The samples were collected and analyzed consistent with the Revised EIB Source Control Workplan (the Workplan) and subsequent communications with DEQ. Expedited results for volatile organic compounds (VOCs) by EPA Method 8260 were received during the weeks of January 26th and February 2nd, 2009. The attached figure shows preliminary results for trichloroethene (TCE) and its degradation products, cis-1,2-DCE and vinyl chloride.

The results indicate that the chlorinated VOC (CVOC) plume axis is located along a line from the source area to PMWs bounded by the WS-24 and WS-25 locations. As discussed with DEQ, the objective of the angled PMW is to provide data along the CVOC plume axis, between the source area and the downgradient PMWs. The proposed target area meets that objective, and is consistent with previous discussions with DEQ.

As indicated on the figure, the maximum CVOC concentrations in the downgradient PMWs were detected in the interval between approximately 90 and 110 feet below ground surface. This depth interval is fairly similar to the depths of the maximum concentrations in the

¹ Preliminary data have not been finalized by the contract laboratory and have not been validated by MFA, and are subject to change or qualification.

source area. Based on the depth information, MFA recommends targeting the 95 to 105 ft bgs depth interval with the angled PMW. Given the geometry of the angled well, the maximum horizontal distance that can be reached using angled drilling is 105 feet, as shown on the attached figure.

As discussed, the angled well will be installed using rotosonic methods, and requires installation of a pre-packed stainless steel well screen. Drilling and installation will otherwise be consistent with methods being employed for the remainder of the PMWs.

Based on the facility operational schedule, installation of the angled well has been firmly scheduled for the week of February 23 – February 27, 2009. As such, MFA requests DEQ's expedited approval of this submittal in order to facilitate timely installation. Based on the installation schedule and subsequent well development and sampling activities, MFA anticipates that the baseline samples should be received by March 9, 2009, with submittal of the PMP by April 6, 2009.

Sincerely,

Maul Foster & Alongi, Inc.

James G.D. Peale, RG

Senior Hydrogeologist

Ted Wall, PE

Principal Engineer

Attachments: Figure

cc: Tom McCue, Siltronic Corporation

Alan Gladstone, Davis Rothwell Earle and Xochihua

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